

Serial No. **10/593,618**  
Amendment dated **June 30, 2011**  
Reply to Office Action dated **April 5, 2011**

Docket No. **K-0864**

**REMARKS/ARGUMENTS**

Claims 1, 2, 4-7, 11 and 14-18 are pending in this application. By this Amendment, claims 1, 4 and 5 are amended, and claims 3, 9, 10 and 19-22 are cancelled without prejudice or disclaimer. Claim 1 is amended simply to include the subject matter of claim 3, and claims 4 and 5 are amended for dependency. Thus it is respectfully submitted that the amendments to the claims do not raise new issues requiring further search and/or consideration. Support for the claims can be found throughout the specification, including the original claims and the drawings. Withdrawal of the rejections in view of the above amendments and the following remarks is respectfully requested.

Entry of the amended claims is proper under 37 C.F.R. §1.116 since the amendments: (1) place the application in condition for allowance (for the reasons discussed herein); (2) do not raise any new issues requiring further search and/or consideration (since the amendments amplify issues previously discussed throughout prosecution without incorporating additional subject matter); (3) satisfy a requirement of form asserted in the previous Office Action; and/or (4) place the application in better form for appeal (if necessary). Entry is thus requested.

The Office Action objects to claims 1, 3 and 10 due to informalities. Claims 3 and 10 have been cancelled. It is respectfully submitted that the amendments to claim 1 are responsive to the Examiner's comments, and thus the objection should be withdrawn.

The Office Action rejects claims 4 and 22 under 35 U.S.C. §112, second paragraph. Claim 22 has been cancelled. It is respectfully submitted that the amendments to claim 4 are responsive

Serial No. **10/593,618**  
Amendment dated **June 30, 2011**  
Reply to Office Action dated **April 5, 2011**

Docket No. **K-0864**

to the Examiner's comments, and that claim 4 meets the requirements of 35 U.S.C. §112, second paragraph. Accordingly, the rejection should be withdrawn.

The Office Action rejects claims 1 and 2 under 35 U.S.C. §103(a) over Han in view of Ito. The rejection is respectfully traversed.

The subject matter of claim 3 (now cancelled) has been incorporated into independent claim 1. The Office Action combines Han and Ito with Wood in rejecting claim 3. Thus, this rejection will be discussed with respect to Han, Ito and Wood.

Independent claim 1 is directed to a home appliance configured to perform communication over a power cable, including a body that defines an exterior of the home appliance, a main controller provided at the body, wherein the main controller controls operation of the home appliance and generates data corresponding to an operation mode of the home appliance, a power cable communication modem provided at the body, wherein the power cable communication modem transmits the data from the main controller to a remote monitor that displays the data remotely, a line connector having the signal lines of the main controller and the power line of the home appliance both connected thereto, and a line connection connector provided at the power cable communication modem, wherein the line connection connector and the line connector are detachably connected so as to connect the power cable communication modem to the signal lines of the main controller and the power line of the home appliance.

As acknowledged in the Office Action, Han and Ito neither disclose nor suggest all of the features recited in independent claim 1, or the claimed combination of features. Further, Wood fails to overcome the deficiencies of Han and Ito.

Wood discloses a power data cable system linking a portable personal computer (PPC) 1 with a GPS receiver 2. A data/power cable 3 and connector fitting 4 are attached to the receiver 2. In the embodiment shown in Figure 1B of Wood (referred to in the Office Action) a cable 8 connects the PPC 1 to the connector fitting 4. The cable 8 includes a power cable 9 having a connector 12 at a first end that is connected to a power source and a second end connected to a fitting 13, and a data cable 10 having a connector 11 at a first end connected to a port 5 of the PPC 1 and a second end connected to the fitting 13. The fittings 4 and 13 are connected to each other so that the GPS 2 receives signals from the PPC 1 and power via the connector 12.

Independent claim 1 recites a line connector having the signal lines of the main controller and the power line of the home appliance both connected thereto, and a line connection connector provided at the power cable communication modem, wherein the line connection connector and the line connector are detachably connected so as to connect the power cable communication modem to the signal lines of the main controller and the power line of the home appliance. In contrast, in the system shown in Figure 1B of Wood, the cables 3 and 8 and fittings 4 and 13 connect the PPC 1 to the GPS 2. Wood neither discloses nor suggests that the fitting 13 (compared in the Office Action to the claimed line connector) has a power line of a home appliance connected thereto, as does the line connector recited in independent claim 1. Further,

Serial No. **10/593,618**  
Amendment dated **June 30, 2011**  
Reply to Office Action dated **April 5, 2011**

Docket No. **K-0864**

Wood neither discloses nor suggests that the fitting 4 (compared in the Office Action to the claimed line connection connector) is provided at a power cable communication modem, as is the line connection connector recited in independent claim 1.

Accordingly, it is respectfully submitted that independent claim 1 is allowable over Han and Ito, even in combination with Wood, and thus the rejection of independent claim 1 should be withdrawn. Dependent claim 2 is allowable over Han and Ito, even in combination with Wood, at least for the reasons set forth above with respect to independent claim 1, from which it depends, as well as for its added features.

The Office Action rejects claims 3 and 19 under 35 U.S.C. §102(a) over Han and Ito in view of Wood. Claims 3 and 19 have been cancelled, and thus this rejection is moot.

The Office Action rejects claim 4 under 35 U.S.C. §103(a) over Han, Ito and Wood in view of Chang. The rejection is respectfully traversed.

Dependent claim 4 is allowable over Han, Ito and Wood at least for the reasons set forth above with respect to independent claim 1, from which it depends, as well as for its added features. Further, Chang is merely cited as allegedly teaching male and female connectors, and for at least this reason fails to overcome the deficiencies of Han, Ito and Wood. Accordingly, it is respectfully submitted that claim 4 is allowable over the applied combination, and thus the rejection of claim 4 under 35 U.S.C. §103(a) over Han, Ito, Wood and Chang should be withdrawn.

Serial No. **10/593,618**  
Amendment dated **June 30, 2011**  
Reply to Office Action dated **April 5, 2011**

Docket No. **K-0864**

The Office Action rejects claims 5-7 and 20 under 35 U.S.C. §103(a) over Han, Ito and Wood in view of Noorily. Claim 20 has been cancelled. The rejection, in so far as it applies to claims 5-7, is respectfully traversed.

Dependent claims 5-7 are allowable over Han, Ito and Wood at least for the reasons set forth above with respect to independent claim 1, from which it depends, as well as for its added features. Further, Noorily is merely cited as allegedly a connector cover, and for at least this reason fails to overcome the deficiencies of Han, Ito and Wood. Accordingly, it is respectfully submitted that claims 5-7 are allowable over the applied combination, and thus the rejection of claims 5-7 under 35 U.S.C. §103(a) over Han, Ito, Wood and Noorily should be withdrawn.

The Office Action rejects claims 9 and 21 under 35 U.S.C. §103(a) over Han and Ito in view of Brooks. Claims 9 and 21 have been cancelled, and thus this rejection is moot.

The Office Action rejects claim 10 under 35 U.S.C. §103(a) over Han, Ito and Brooks in view of Chang. Claim 10 has been cancelled, and thus this rejection is moot.

The Office Action rejects claims 11 and 14-16 under 35 U.S.C. §103(a) over Han and Ito in view of Denninghoff. The rejection is respectfully traversed.

Dependent claims 11 and 14-16 are allowable over Han and Ito, even in combination with Wood, at least for the reasons set forth above with respect to independent claim 1, from which they depend, as well as for their added features. Further, Denninghoff is merely cited as allegedly a built in type modem, and for at least this reason fails to overcome the deficiencies of Han, Ito and Wood. Accordingly, it is respectfully submitted that claims 11 and 14-16 are

Serial No. **10/593,618**

Docket No. **K-0864**

Amendment dated **June 30, 2011**

Reply to Office Action dated **April 5, 2011**

allowable over the applied combination, and thus the rejection of claims 11 and 14-16 under 35 U.S.C. §103(a) over Han, Ito, Wood and Denninghoff should be withdrawn.

The Office Action rejects claims 17 and 18 under 35 U.S.C. §103(a) over Han and Ito in view of Tutison. The rejection is respectfully traversed.

Dependent claims 17 and 18 are allowable over Han and Ito, even in combination with Wood, at least for the reasons set forth above with respect to independent claim 1, from which they depend, as well as for their added features. Further, Tutison is merely cited as allegedly a noise filter, and for at least this reason fails to overcome the deficiencies of Han, Ito and Wood. Accordingly, it is respectfully submitted that claims 17 and 18 are allowable over the applied combination, and thus the rejection of claims 17 and 18 under 35 U.S.C. §103(a) over Han, Ito, Wood and Tutison should be withdrawn.

The Office Action rejects claim 22 under 35 U.S.C. §103(a) over Han, Ito and Brooks in view of Noorily. Claim 22 has been cancelled, and thus this rejection is moot.

### **CONCLUSION**

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned, **Joanna K. Mason**, at the telephone number listed below.

Serial No. **10/593,618**

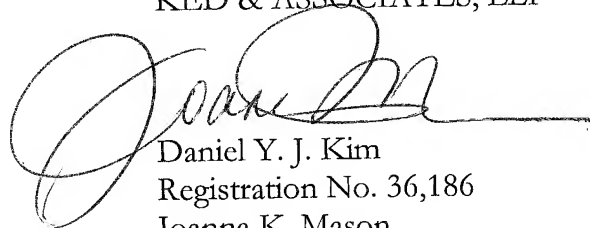
Docket No. **K-0864**

Amendment dated **June 30, 2011**

Reply to Office Action dated **April 5, 2011**

To the extent necessary, a petition for an extension of time under 37 C.F.R. §1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,  
KED & ASSOCIATES, LLP



Daniel Y. J. Kim  
Registration No. 36,186  
Joanna K. Mason  
Registration No. 56,408

Correspondence Address:

P.O. Box 8638

Reston, VA 20195

703 766-3777

**Date: June 30, 2011**

**Please direct all correspondence to Customer Number 34610**

Q:\Documents\2016-1070\286413